

ABSTRACT

Inter-device adaptable interfacing clock skewing. The invention is operable in either one of both of a transmit mode and a receive mode to perform skewing of a transmitted and/or a received signal. The operational parameters including frequency and phase may be determined during auto detect/auto negotiation, they may be programmed externally, or they may be user selected in various embodiments. A device may include a clock generator, one or more divider, and one or more delay cells internally to the device. If desired, a high frequency clock is generated within the device and then divided down to generate the appropriate clock signal that supports the communication and interaction between multiple devices. Registers and/or pins may be used to select the clock frequency and phase of output clock signals. The present invention supports multiple Ethernet protocols between multiple devices including 10BaseT, 100BaseT, and 1000BaseT.